

Service Manual

ORDER NO.
RRV3167

DVD RECORDER

DVR-433H-S DVR-433H-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Region No.	Serial No. Please confirm 3rd & 4th alphabetical letters.
DVR-433H-S	WYXV	AC220-240V	2	&&DL#####S
DVR-433H-K	WYXV	AC220-240V	2	&&DL#####S
DVR-433H-S	WVXV	AC220-240V	2	&&DL#####S
DVR-433H-S	WYXV/RE	AC220-240V	5	&&DL#####S
DVR-433H-K	WYXV/RE	AC220-240V	5	&&DL#####S

● This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
DVR-530H-S/WYXV	RRV3149	

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

● Screws adjacent to ∇ mark on product are used for disassembly.

● Reference Nos. indicate the pages and Nos. in the service manual for the base model.

● For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω \rightarrow 56×10^1 \rightarrow 561 RD1/APU $\boxed{5} \boxed{6} \boxed{1} J$

47k Ω \rightarrow 47×10^3 \rightarrow 473 RD1/APU $\boxed{4} \boxed{7} \boxed{3} J$

0.5 Ω \rightarrow R50 RN2H $\boxed{R} \boxed{5} \boxed{0} K$

1 Ω \rightarrow 1R0 RS1P $\boxed{1} \boxed{R} \boxed{0} K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω \rightarrow 562×10^1 \rightarrow 5621 RN1/4PC $\boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

■ CONTRAST TABLE

DVR-433H-S/WYXV, /WVXV, /WYXV/RE, DVR-433H-K/WYXV, /WYXV/RE and DVR-530H-S/WYXV are constructed the same except for the following:

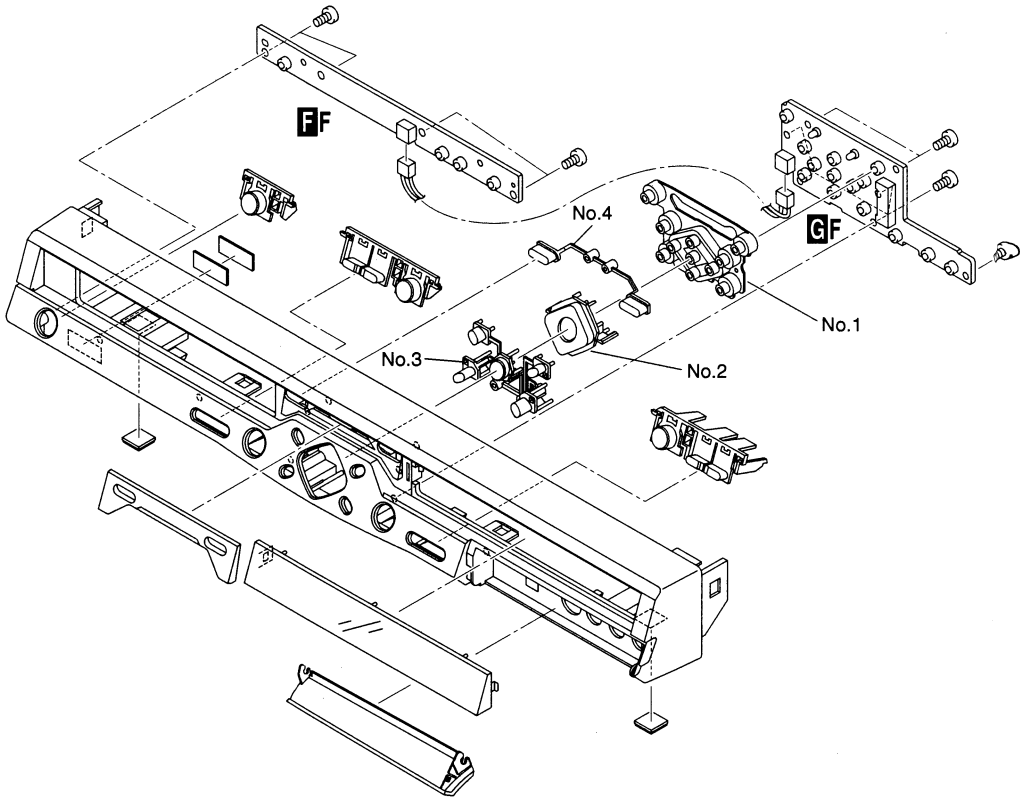
Ref. No.	Mark	Symbol and Description	Part No.						Remarks
			DVR-530H-S /WYXV	DVR-433H-S /WYXV	DVR-433H-K /WYXV	DVR-433H-S /WVXV	DVR-433H-S /WYXV/RE	DVR-433H-K /WYXV/RE	
P11- 2 P11- 6	NSP	PCB ASSEMBLIES							
		1..JAFL ASSY (for SERVICE)	VXX3005	VXX3004	VXX3004	VXX3004	VXX3004	VXX3004	
		2..JAFL ASSY	VWM2315	VWM2314	VWM2314	VWM2314	VWM2314	VWM2314	
	NSP	3..JACB ASSY	VWV2115	VWV2114	VWV2114	VWV2114	VWV2114	VWV2114	
		1..MAIN ASSY (for SERVICE)	VXX2997	VXX2996	VXX2996	VXX2996	VXX2996	VXX2996	
		1..KEYB ASSY (for SERVICE)	VXX3032	VXX3030	VXX3030	VXX3030	VXX3030	VXX3030	
P13-1 P13-2	NSP	2..KEYB ASSY	VWM2332	VWM2330	VWM2330	VWM2330	VWM2330	VWM2330	
		3..PSWB ASSY	VWG2526	VWG2524	VWG2524	VWG2524	VWG2524	VWG2524	
		3..RSWB ASSY	VWG2530	VWG2528	VWG2528	VWG2528	VWG2528	VWG2528	
	Δ	PACKING SECTION							
		AC Power Cord	ADG7090	ADG7090	ADG7090	ADG7103	ADG7090	ADG7090	
		Remote Control Unit	VXX2969	VXX3048	VXX3048	VXX3047	VXX3048	VXX3048	
P9- 4 P9- 5 P9- 7 P9-11		Battery Cover	AZN7933	VNK4998	VNK4998	VNK4998	VNK4998	VNK4998	
		IR Blaster	VDX1010	Not used	Not used	Not used	Not used	Not used	
		Operating Instructions (English)	Not used	Not used	Not used	VRB1379	Not used	Not used	
		Operating Instructions (French)	VRC1251	VRC1263	VRC1263	Not used	Not used	Not used	
		Operating Instructions (German)	VRC1252	VRC1262	VRC1262	Not used	Not used	Not used	
		Operating Instructions (Italian)	VRC1253	VRC1261	VRC1261	Not used	Not used	Not used	
P9-15 P9-16		Operating Instructions (Spanish)	VRC1255	VRC1264	VRC1264	Not used	Not used	Not used	
		Operating Instructions (Dutch)	VRC1254	VRC1265	VRC1265	Not used	Not used	Not used	
		Dual Layer IM (English)	Not used	Not used	Not used	VRB1392	Not used	Not used	
		Dual Layer IM (French)	VRC1280	VRC1280	VRC1280	Not used	Not used	Not used	
		Dual Layer IM (German)	VRC1281	VRC1281	VRC1281	Not used	Not used	Not used	
		Dual Layer IM (Italian)	VRC1282	VRC1282	VRC1282	Not used	Not used	Not used	
P9-20 P9-21		Dual Layer IM (Spanish)	VRC1283	VRC1283	VRC1283	Not used	Not used	Not used	
		Dual Layer IM (Dutch)	VRC1284	VRC1284	VRC1284	Not used	Not used	Not used	
		Operating Instructions (Russian)	Not used	Not used	Not used	Not used	VRC1278	VRC1278	
P9-24 P9-25	NSP	Dual Layer IM (Russian)	Not used	Not used	Not used	Not used	VRC1285	VRC1285	
		User Card	VRY1158	VRY1158	VRY1158	Not used	Not used	Not used	
		Polyethylene Bag (A4x2)	VHL1091	VHL1091	VHL1091	Not used	Not used	Not used	
P9-30	NSP	Packing Case	VHG2600	VHG2602	VHG2631	VHG2632	VHG2648	VHG2649	
		EXTERIOR SECTION							
		HDD160G WD1600BBGUCS	VXF1068	Not used	Not used	Not used	Not used	Not used	
		HDD80G WD800BBJKC S	Not used	VXF1066	VXF1066	VXF1066	VXF1066	VXF1066	
P11-28 P11-29 P11-38		Bonnet Case S	VXX3039	VXX3039	VXX3042	VXX3039	VXX3039	VXX3042	
		Rear Panel	VNA2772	VNA2795	VNA2795	VNA2795	VNA2818	VNA2819	
		Pioneer Name Plate	VAM1148	VAM1148	VAM1153	VAM1148	VAM1148	VAM1153	

Ref. No.	Mark	Symbol and Description	Part No.						Remarks
			DVR-530H-S /WYXV	DVR-433H-S /WYXV	DVR-433H-K /WYXV	DVR-433H-S /WVXV	DVR-433H-S /WYXV/RE	DVR-433H-K /WYXV/RE	
P11-40		Tray Panel EB	VNK5715	Not used	Not used	Not used	Not used	Not used	
P11-40		Tray Panel A	Not used	VNK5703	VNK5703	VNK5703	VNK5703	VNK5703	
P11-41		Bonnet Label	VRW2172	VRW2173	VRW2185	VRW2176	VRW2173	VRW2185	
P11-46		Screw (FE)	VBA1104	VBA1104	Not used	VBA1104	VBA1104	Not used	
P11-46		Screw B (FE)	Not used	Not used	VBA1105	Not used	Not used	VBA1105	
P11-53		Screw	BSZ30P060FTC	BSZ30P060FTC	BSZ30P060FBN	BSZ30P060FTC	BSZ30P060FTC	BSZ30P060FBN	
FRONT PANEL SECTION									
P13- 3		Housing Ass'y (3P)	VKP2359	VKP2360	VKP2360	VKP2360	VKP2360	VKP2360	
P13- 5		FL Lens E	VNK5706	Not used	Not used	Not used	Not used	Not used	
P13- 5		FL Lens A	Not used	VNK5698	VNK5698	VNK5698	VNK5698	VNK5698	
P13- 6		Main Key E1	VNK5707	Not used	Not used	Not used	Not used	Not used	
P13- 6		Main Key A	Not used	VNK5701	VNK5822	VNK5701	VNK5701	VNK5822	
P13- 7		Center Lens E	VNK5713	Not used	Not used	Not used	Not used	Not used	
P13- 7		Center Lens AC	Not used	VNK5699	VNK5699	VNK5699	VNK5699	VNK5699	
P13- 8		Front Panel E	VNK5763	Not used	Not used	Not used	Not used	Not used	
P13- 8		Front Panel A	Not used	VNK5826	VNK5820	VNK5826	VNK5826	VNK5820	
P13- 9		Door E	VNK5708	Not used	Not used	Not used	Not used	Not used	
P13- 9		Door A	Not used	VNK5827	VNK5821	VNK5828	VNK5827	VNK5821	
P13-10		Center Panel EB2	VNK5714	Not used	Not used	Not used	Not used	Not used	No. 1
		Rubber Hindge	Not used	VEB1371	VEB1371	VEB1371	VEB1371	VEB1371	No. 2
		Cursol Key	Not used	VNK5695	VNK5823	VNK5695	VNK5695	VNK5823	No. 3
		Enter Key	Not used	VNK5696	VNK5824	VNK5696	VNK5696	VNK5824	No. 3
		Eject Key A	Not used	VNK5697	VNK5825	VNK5697	VNK5697	VNK5825	No. 4

Notes : • For PCB ASSEMBLIES, Refer to “CONTRAST OF PCB ASSEMBLIES”, “2. SCHEMATIC DIAGRAM” and “3. PCB CONNECTIONDIAGRAM”.

• The numbers in the remarks column correspond to the numbers on "FRONT PANEL SECTION".

● FRONT PANEL SECTION



● CONTRAST OF PCB ASSEMBLIES**BF JACB ASSY**

VWV2114 and VWV2115 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		VWV2115	VWV2114	
	Q107 Q112 Q415, Q416 Q417 L103 C124 C163 C164 - C166 C475, C479 C476, C477, C480, C481 C478, C482 R107 R109 R110, R184 R185 - R187 R233 R440, R451, R455 R449, R452, R453, R456 R450, R454 R457 R458, R459 R460, R461 JA101 (MINI JACK)	2SA1576A 2SC4081 Not used Not used VTL1081 CEAT101M10 CKSRYF104Z25 CCSRCH101J50 Not used Not used Not used RS1/16S0R0J RS1/16S151J RS1/16S102J RS1/16S472J RS1/16S104J Not used Not used Not used Not used Not used Not used AKN1073	Not used Not used 2SA1576A 2SC4081 Not used Not used Not used Not used CKSRYF104Z25 CKSRYB105K6R3 CCSRCH101J50 Not used Not used Not used Not used Not used RS1/16S0R0J RS1/16S104J RS1/16S473J RS1/16S103J RS1/16S222J RS1/16S472J Not used	

HF MAIN ASSY

VXX2996 and VXX2997 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		VXX2997	VXX2996	
	IC3401 C3401 C3404 R3021, R3401, R3404 - R3406 R3025 R3402 R3403 R3407 X3401 (16MHz)	PDF015A CKSSYF104Z16 CKSQYB106K6R3 RS1/16SS0R0J Not used RS1/10S0R0J RS1/16SS105J RS1/16SS473J CSS1616	Not used Not used Not used Not used RS1/16SS0R0J Not used Not used Not used Not used	

■ PCB PARTS LIST

Mark	No.	Description	Part No.
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FF PSWB ASSY

SWITCHES AND RELAYS

S1212, S1213, S1405, S1406	VSG1024
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RESISTORS

Other Resistors	RS1/16S###J
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OTHERS

CN1101 CONNECTOR POST	S3B-PH-K
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GF RSWB ASSY

SEMICONDUCTORS

Q1202, Q1203	DTC124EUA
D1207	SLR-343BBT
D1203	SLR-343DC

SWITCHES AND RELAYS

S1201-S1206, S1208-S1211	VSG1024
S1401-S1404	VSG1024

CAPACITORS

C1201, C1202, C1204-C1206	CKSRYF104Z25
C1403, C1404	CKSRYF104Z25

RESISTORS

Other Resistors	RS1/16S###J
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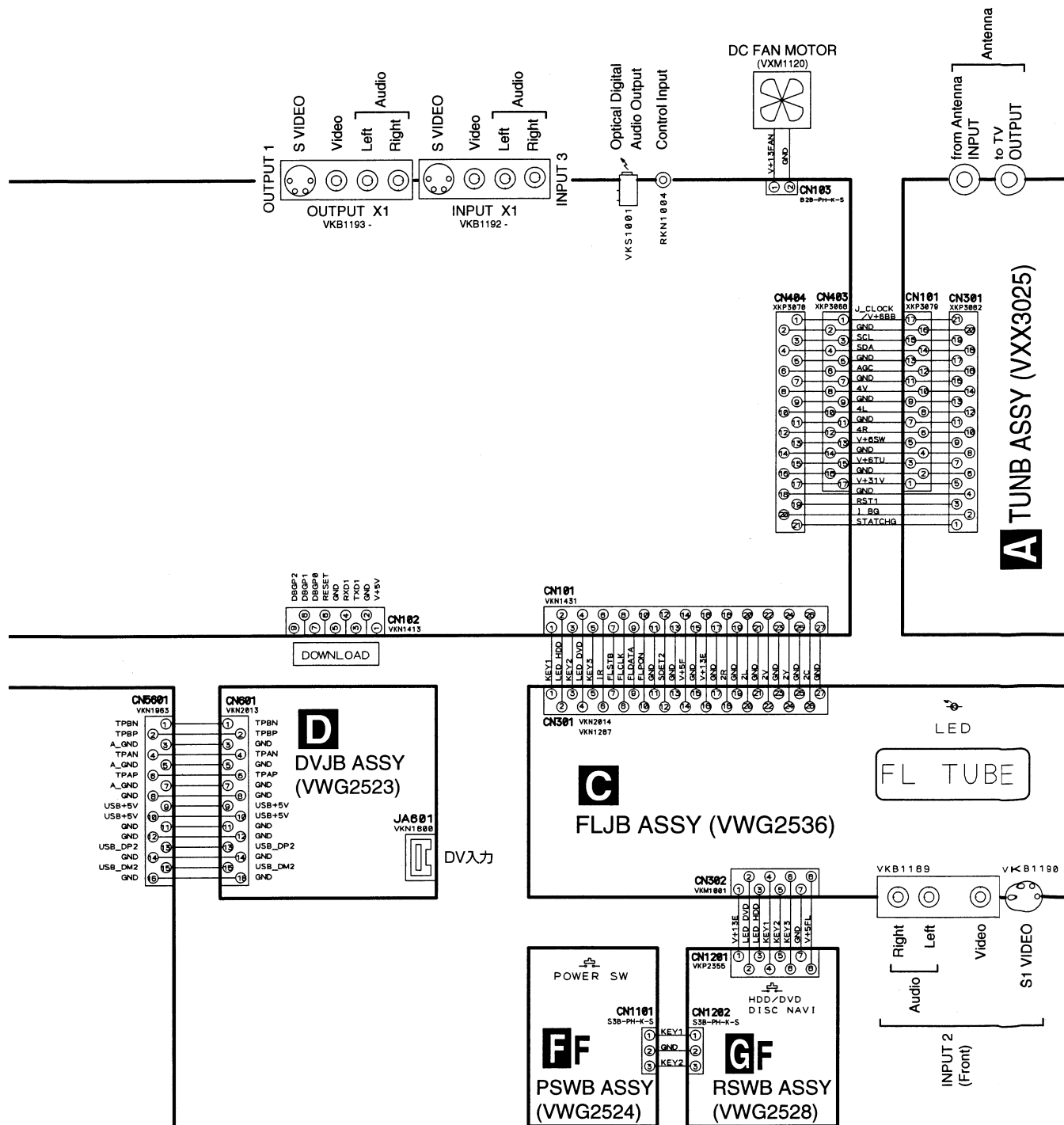
OTHERS


CN1202 CONNECTOR POST	S3B-PH-K
CN1201 CONNECTOR	VKP2355

4

4





- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
-  : The power supply is shown with the marked box.

2.2 JACB ASSY(1/2)

A

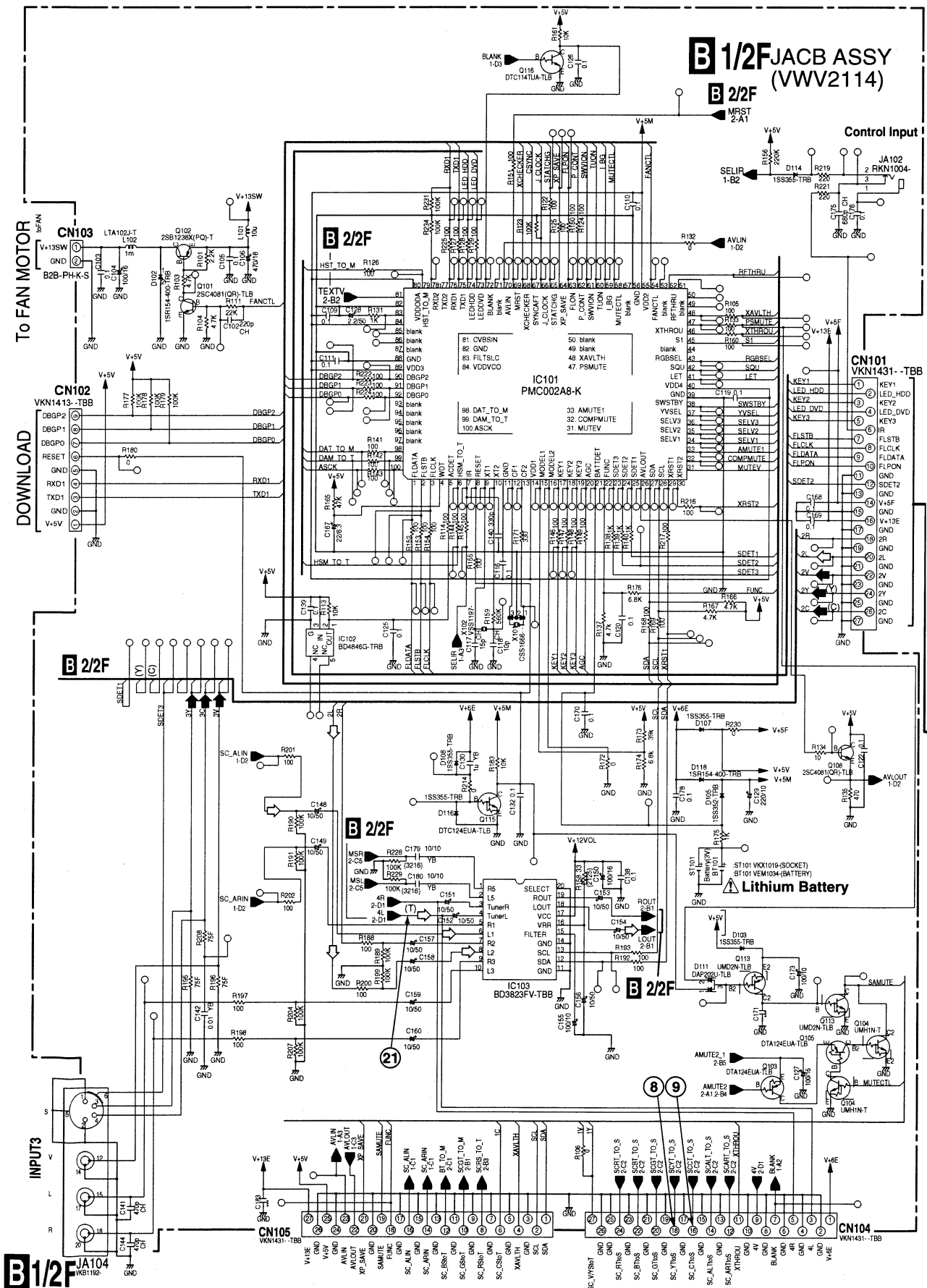
B

C

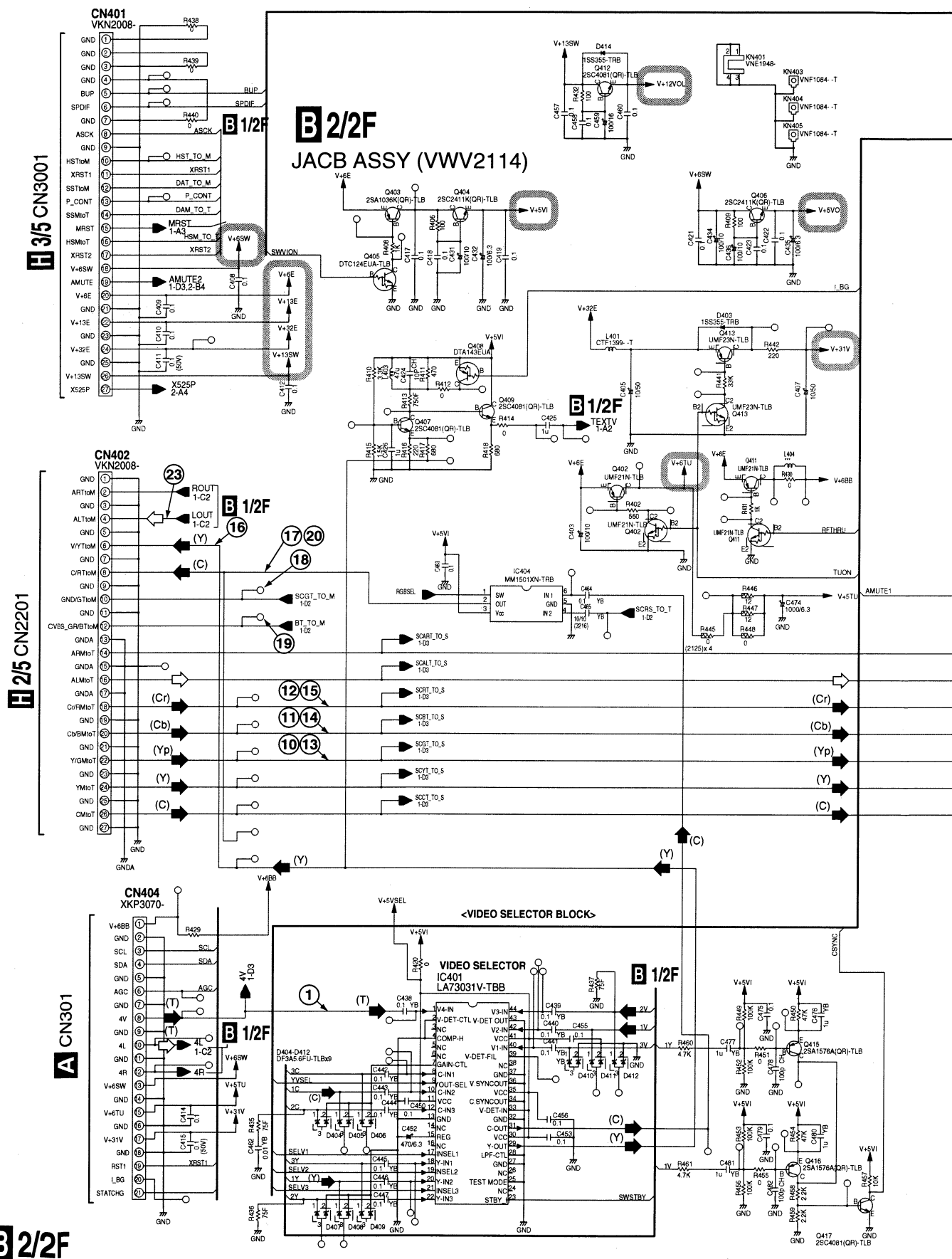
D

E

F

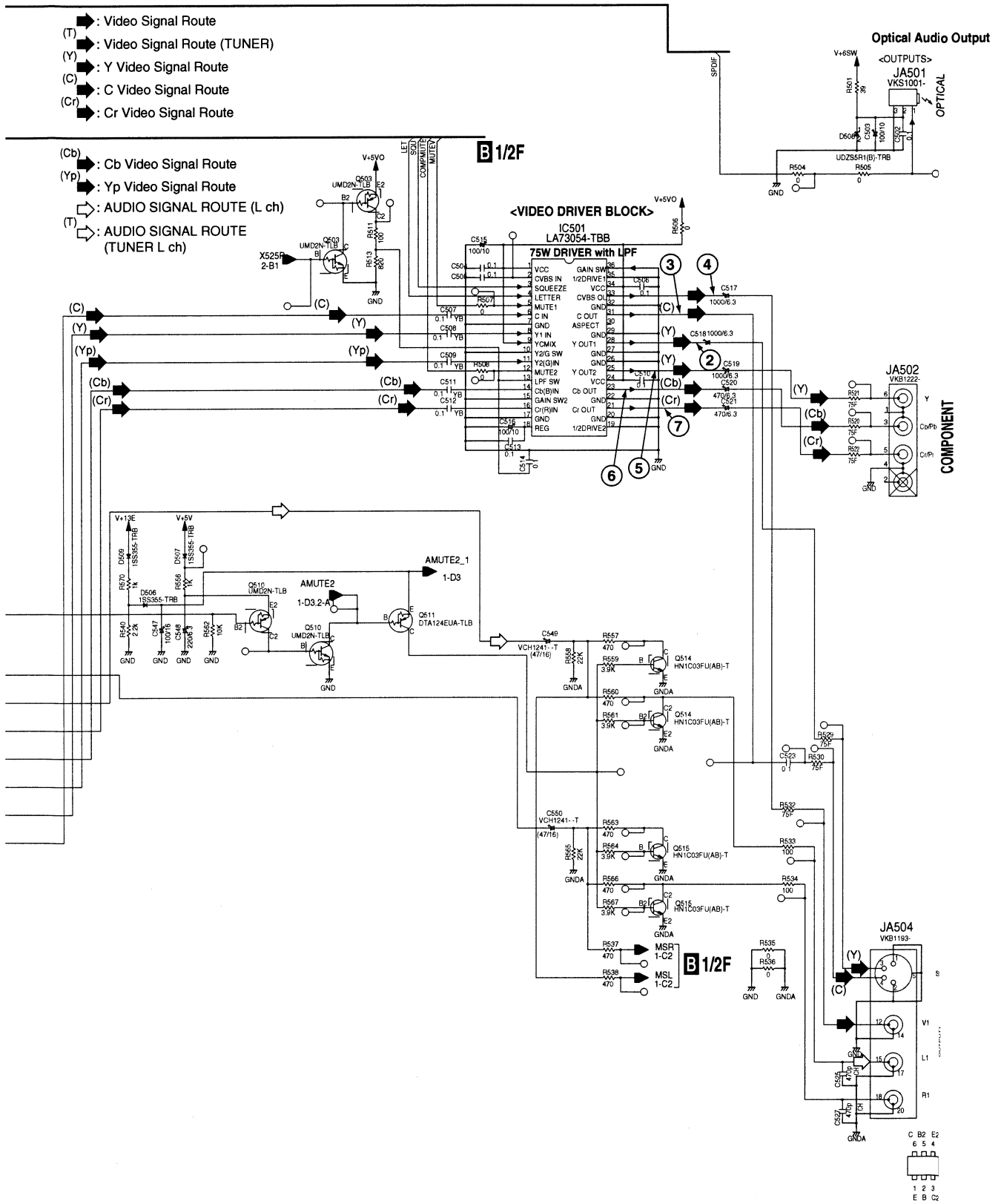


2.3 JACB ASSY(2/2)



- ▶ : Video Signal Route
- (T) ▶ : Video Signal Route (TUNER)
- (Y) ▶ : Y Video Signal Route
- (C) ▶ : C Video Signal Route
- (Cr) ▶ : Cr Video Signal Route

- (Cb) ▶ : Cb Video Signal Route
- (Yp) ▶ : Yp Video Signal Route
- (T) ▶ : AUDIO SIGNAL ROUTE (L ch)
- (T) ▶ : AUDIO SIGNAL ROUTE (TUNER L ch)

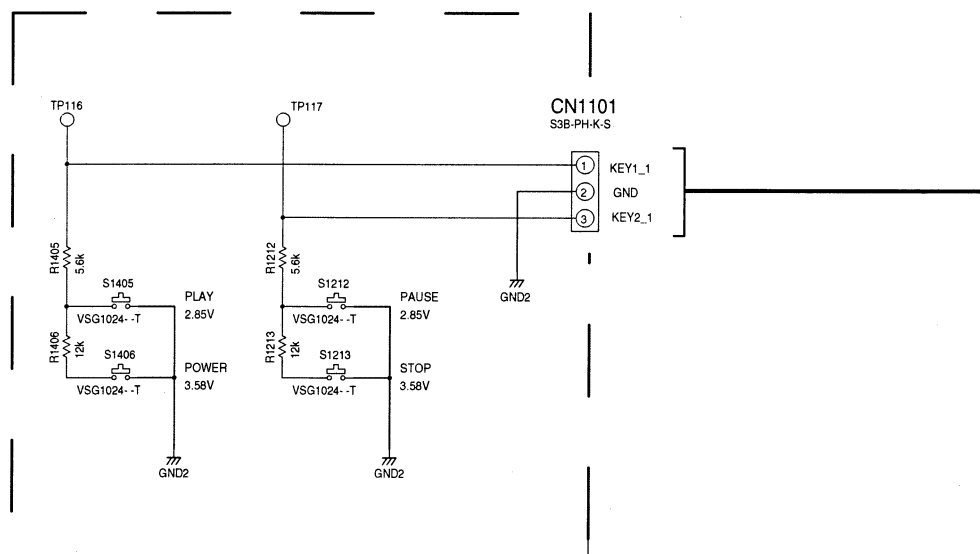


2.4 PSWB and RSWB ASSYS

FF PSWB ASSY (VWG2524)

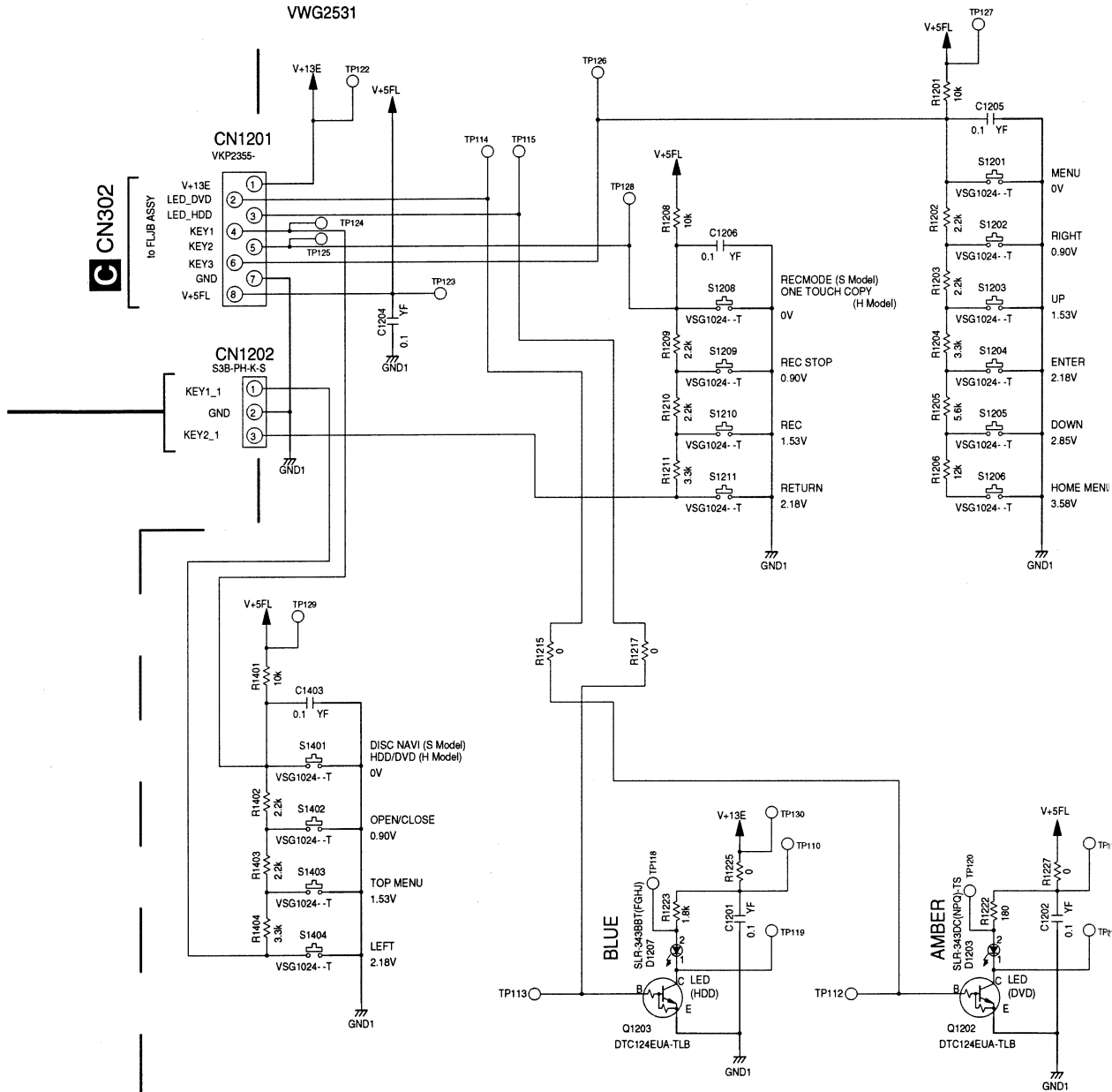
Switches

S1212:PAUSE
S1213:STOP
S1405:PLAY
S1406:POWER



GF RSWB ASSY (VWG2528)

RSWB ASSY
VWG2528
VWG2531



Switches

S1201:MENU
S1202:RIGHT
S1203:UP
S1204:ENTER
S1205:DOWN
S1206:HOME MENU

S1208:ONE TOUCH COPY
S1209:REC STOP
S1210:REC
S1211:RETURN
S1401:HDD/DVD
S1402:OPEN/CLOSE
S1403:TOP MENU
S1404:LEFT



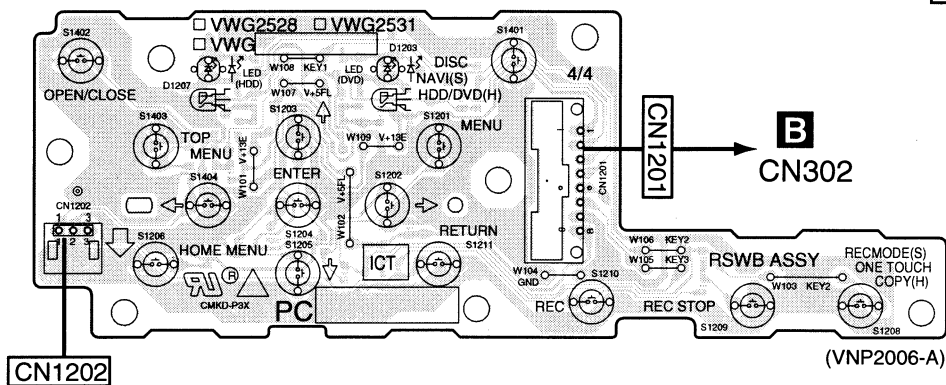
3. PCB CONNECTION DIAGRAM

3.1 PSWB and RSWB ASSYS

SIDE A

GF RSWB ASSY

SIDE A



FF PSWB ASSY

FF GF

FF GF

4. GENERAL INFORMATION

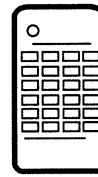
4.1 MODEL TYPE SETTING

[Purposes]

When the MAIN Assy and/or TUJB Assy that are(is) commonly used with another model are(is) replaced, they(it) must recognize the model of this unit.

Items to be set: The model number, destination, and region No. must be set.

[Tool to be used]



Remote control unit for servicing
(GGF1381)

[Notes]

- Once the setting has been made, it can never be changed. Be sure to make the setting correctly.
- As this setting resets the Assy(s) in question to the factory-preset status, it is recommended that you obtain the customer's consent beforehand.

[Procedures]

- ① After power on, the following screen is displayed on TV monitor. Press four digits properly (for example "2401") by using the remote control unit for service, according to the screen information.

[Recorder's Model Setting]

Input the number using the remote for Service.

> ---

Input No.	Model	**	Destination
[22** : DVR-530H]		[01 : WY]	
[23** : DVR-630H]		[02 : WV]	
[24** : DVR-433H]		[03 : WY/RE]	
		[04 : WY/GR]	
		[05 : WY/SP]	

- ② Disconnect then reconnect the AC power cord of the unit. Be careful not to impart vibration to the unit immediately after the AC power cord is disconnected.

- ③ Reset the recorder to all its factory settings.
(Make sure that the recorder is on. Press and hold ■ (STOP) key and press ⏻ (STANDBY/ON) key on the front panel.)
The recorder turns off with all settings reset.

- ④ Press [ESC] then [DISP] keys by using the remote control unit for servicing, and then confirm each Model Name (for example "DVR-433H/WY").

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DVR-433H/WY   VERSION : 4.**
SYSICON  : RELEASE_166
              Rev   :1.10357.2.43
TUNERCON : 835.000      OK
DRIVE    : DVD-RW DVR-R09R  OK
              1.52        OK
              DLDL000946WL  OK

HDD      : WDC WD800BB-xxJKCx  80
DEVICE   : PRISM2-ES2
REGION   : 2
C        : *****
FLASH    : 64M
  
```

- ⑤ End

